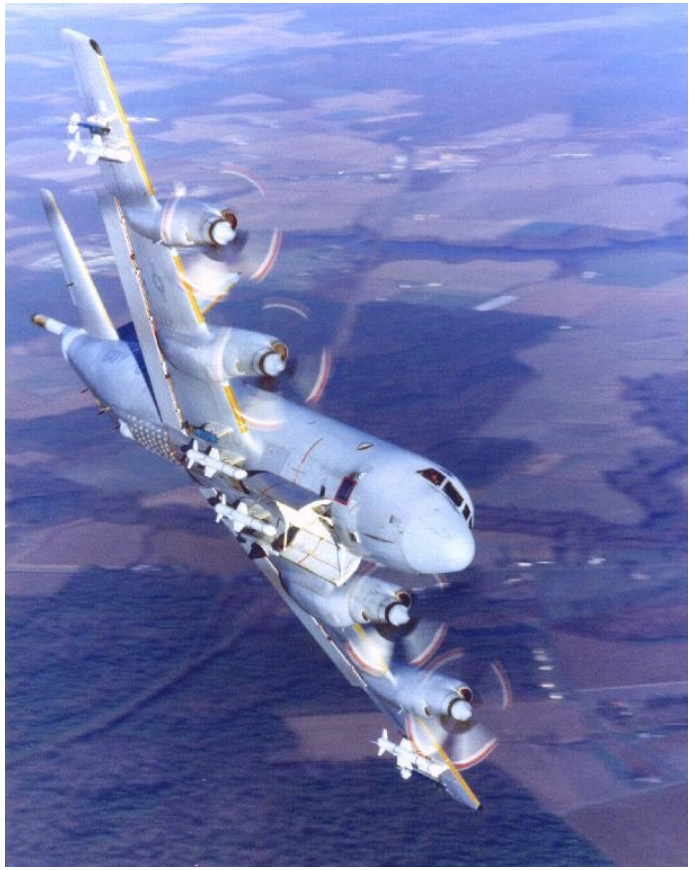
Environmental Management System Implementation

NAS JRB Willow Grove

The Base:

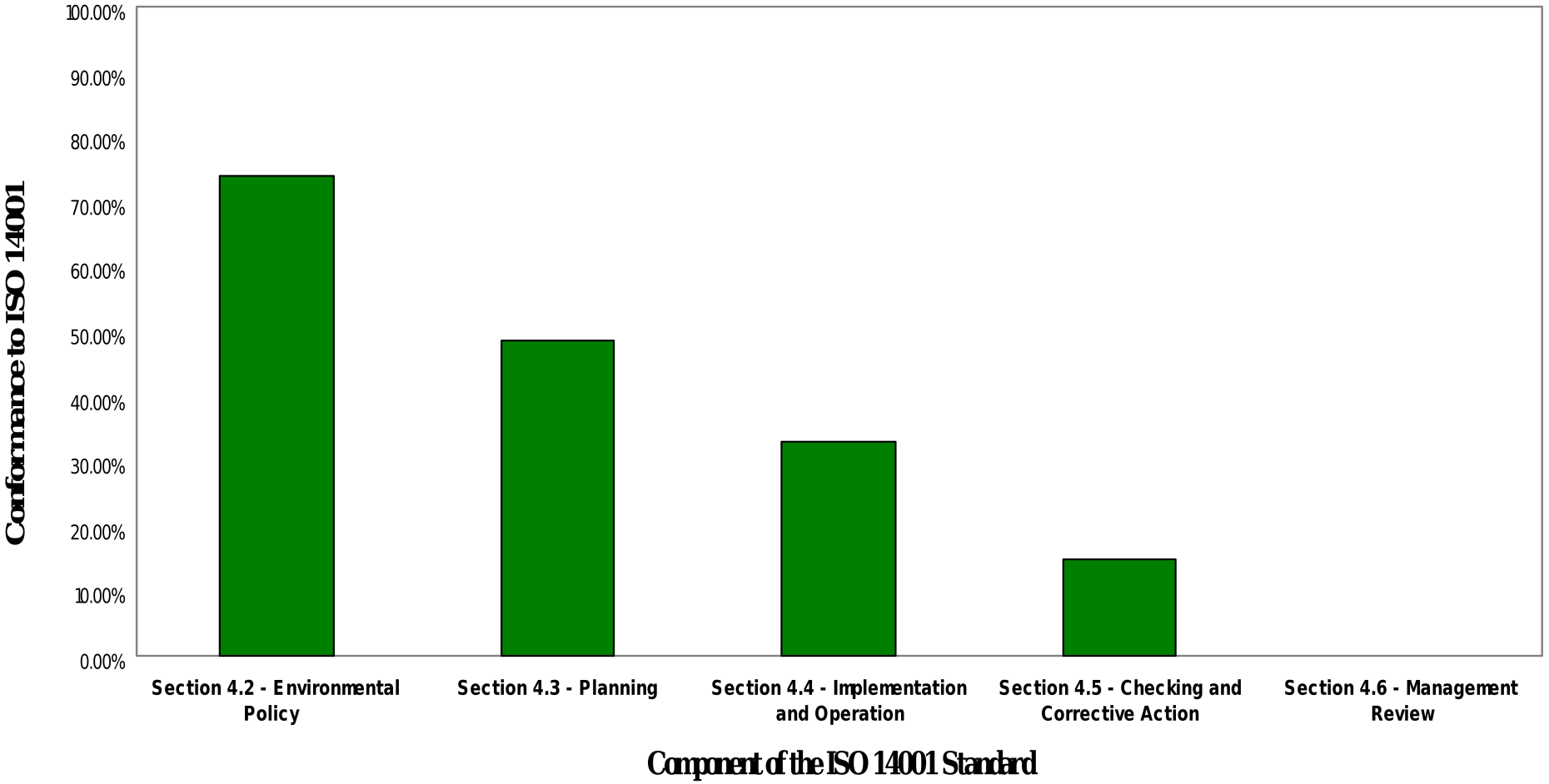
- 1,000 Acres
- 7,500 Reserve Personnel
- Navy, Air Force, Army, Marines



Already Accomplished

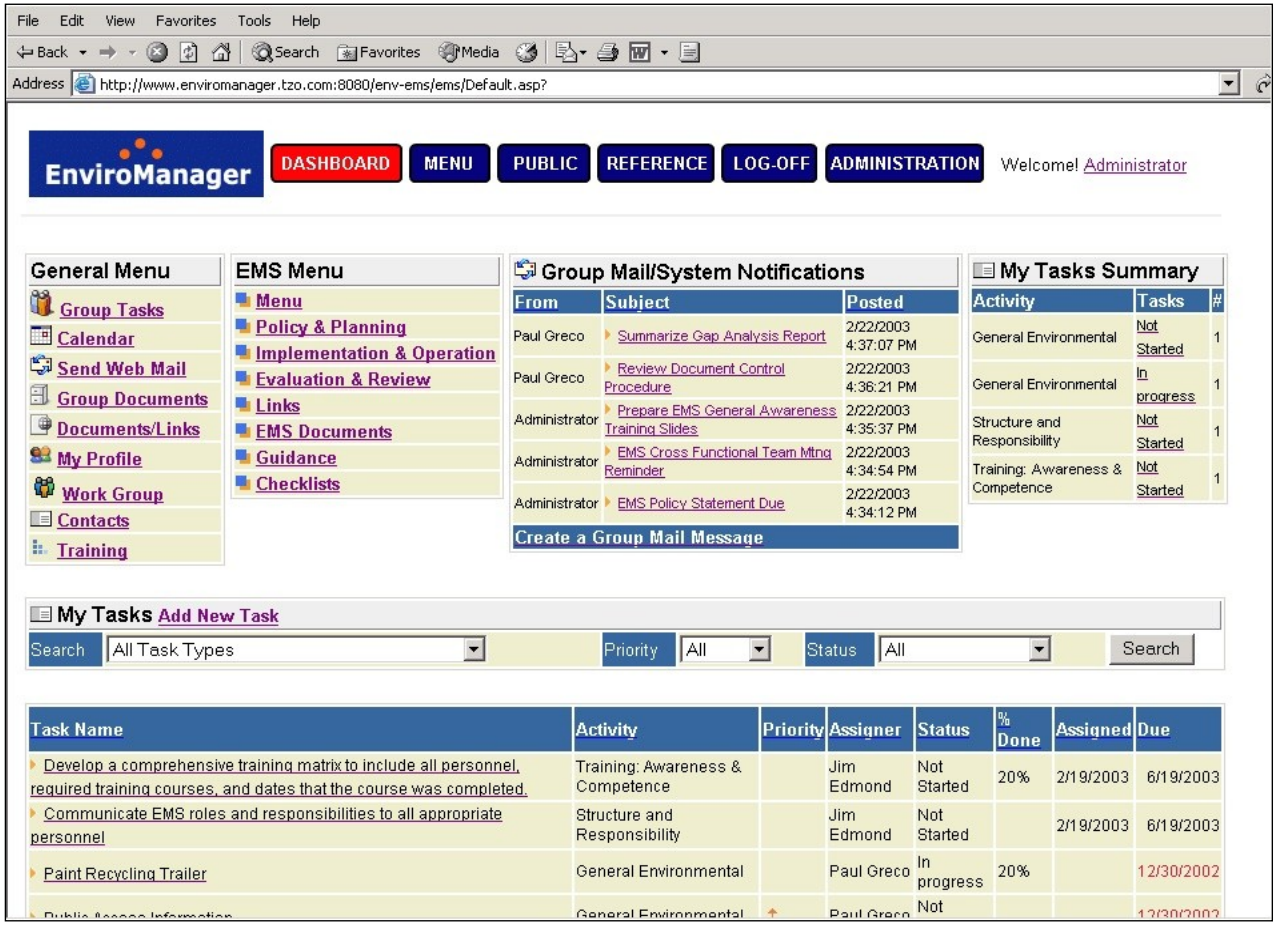
- Gap Analysis
- Cross Functional Team
- Training
- EMS Procedures
- Environmental Aspect Assessment
- Software application for managing EMS
- Integration/streamlining

ISO 14001 Gap Analysis - NAS JRB Willow Grove



TETRA TECH, INC.

Web-Based EMS Management


File Edit View Favorites Tools Help
Back Search Favorites Media
Address http://www.enviromanager.tzo.com:8080/env-ems/ems/Default.asp?
EnviroManager
DASHBOARD MENU PUBLIC REFERENCE LOG-OFF ADMINISTRATION
Welcome! Administrator
General Menu
Group Tasks
Calendar
Send Web Mail
Group Documents
Documents/Links
My Profile
Work Group
Contacts
Training
EMS Menu
Menu
Policy & Planning
Implementation & Operation
Evaluation & Review
Links
EMS Documents
Guidance
Checklists
Group Mail/System Notifications
From Subject Posted
Paul Greco Summarize Gap Analysis Report 2/22/2003 4:37:07 PM
Paul Greco Review Document Control Procedure 2/22/2003 4:36:21 PM
Administrator Prepare EMS General Awareness Training Slides 2/22/2003 4:35:37 PM
Administrator EMS Cross Functional Team Mtng Reminder 2/22/2003 4:34:54 PM
Administrator EMS Policy Statement Due 2/22/2003 4:34:12 PM
Create a Group Mail Message
My Tasks Summary
Activity Tasks #
General Environmental Not Started 1
General Environmental In progress 1
Structure and Responsibility Not Started 1
Training: Awareness & Competence Not Started 1
My Tasks Add New Task
Search All Task Types Priority All Status All Search
Task Name Activity Priority Assigner Status % Done Assigned Due
Develop a comprehensive training matrix to include all personnel, required training courses, and dates that the course was completed. Training: Awareness & Competence Jim Edmond Not Started 20% 2/19/2003 6/19/2003
Communicate EMS roles and responsibilities to all appropriate personnel Structure and Responsibility Jim Edmond Not Started 2/19/2003 6/19/2003
Paint Recycling Trailer General Environmental Paul Greco In progress 20% 12/30/2002

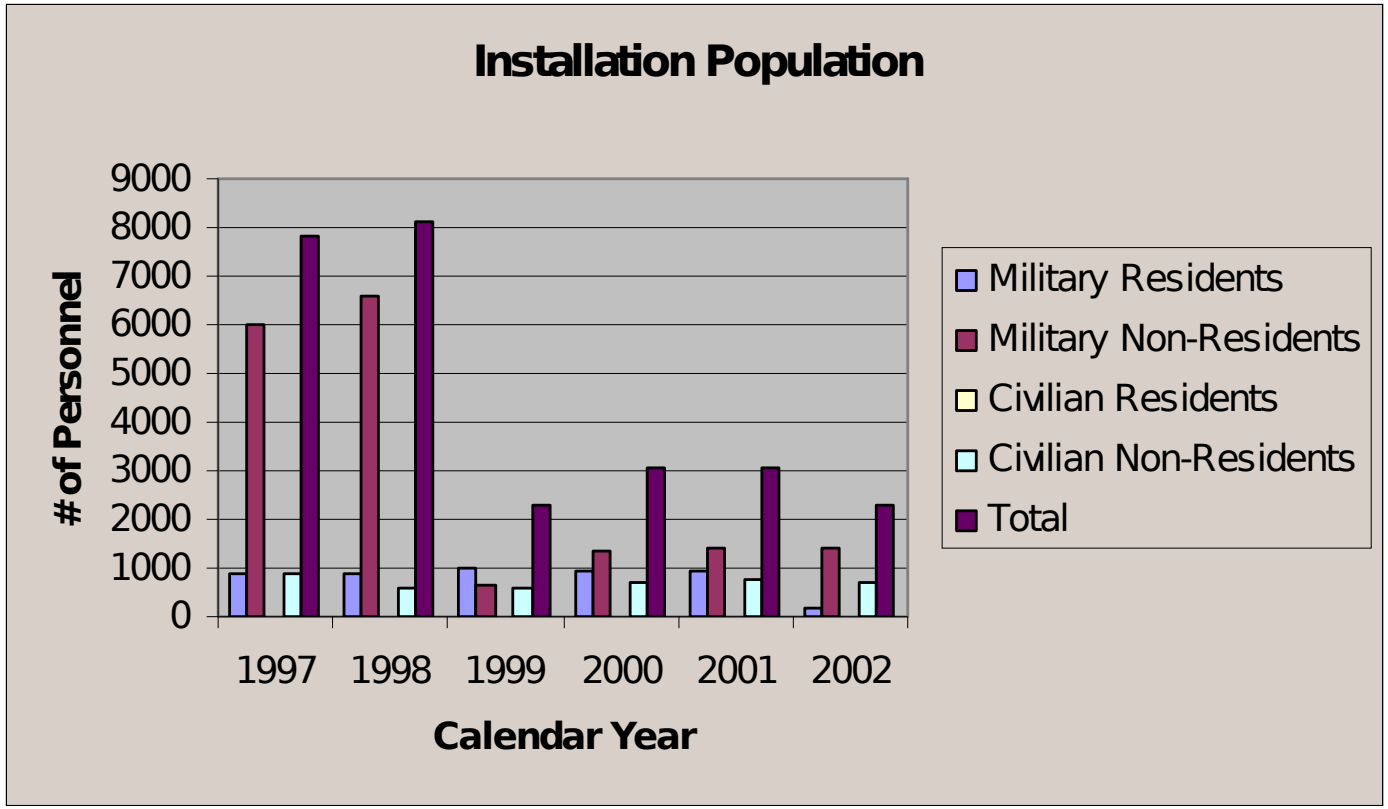
Approach to Project

- Pre-site preparation
- Pre-site visit questionnaire
- Site visit
- Data analysis
- Follow-up
- Develop EQA
- Automate data collection

Worksheet Summary

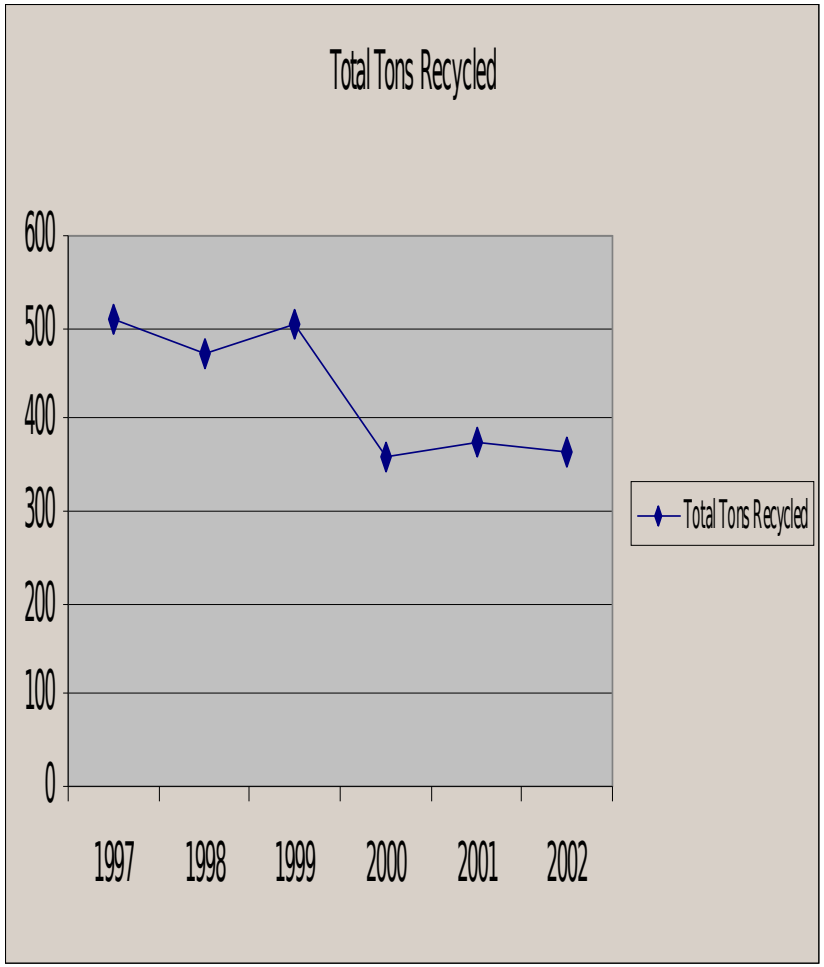
- Mission Specific Metrics
- 5090.1B/Media-Baseline Inventory Summary
  - EPCRA Tier II Rpt
  - Solid Waste
  - Hazardous Waste Generation
  - Air Emissions
- Funding Summary (EPR data)
- Environmental
- Environmental Aspects
- Safety
- Social
- Economic
- Process (Utility and process specific data)
- Objectives/DoD measures of Merit

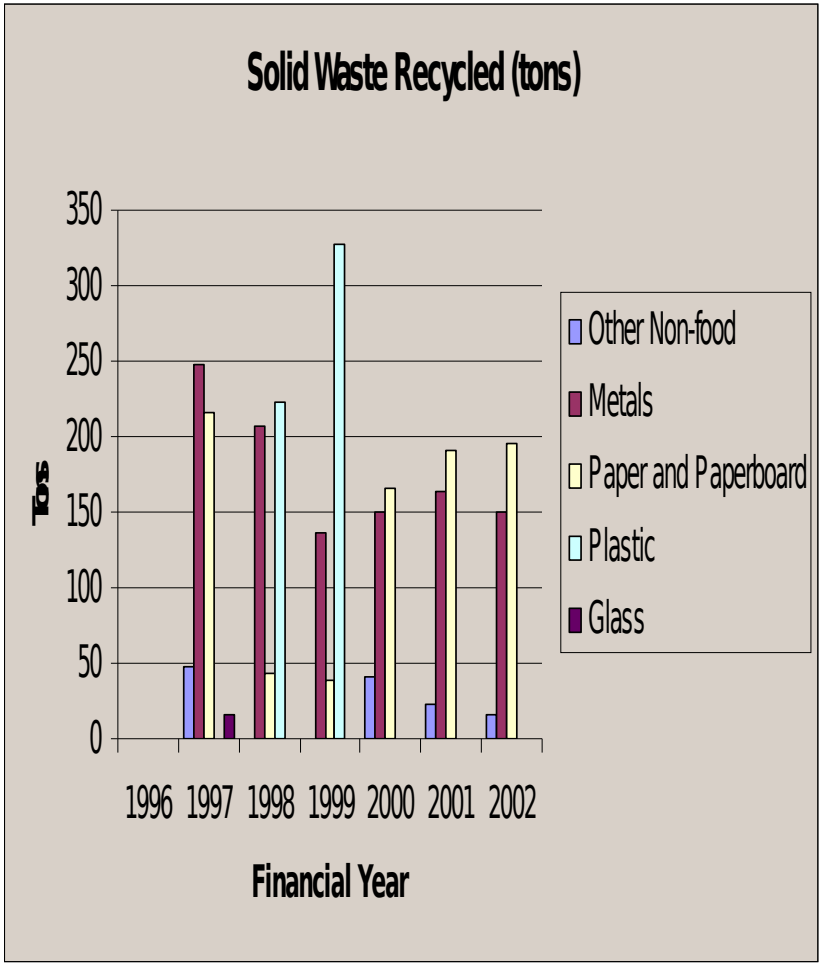
Installation Population*



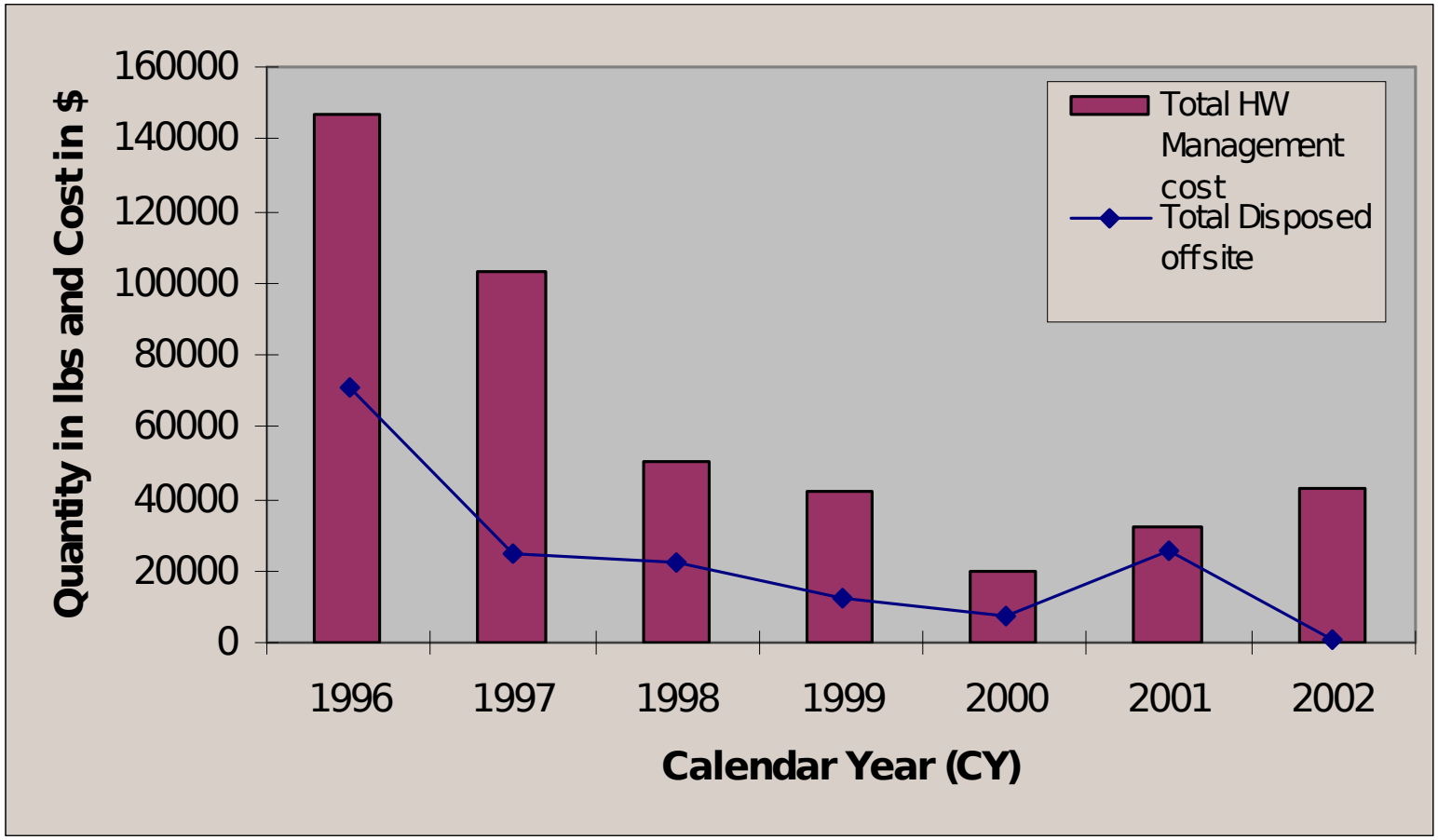
*Installation population numbers were taken from the annual P2ADS Reports.

Solid Waste


Total Tons Recycled
600
500
400
300
200
100
0
1997
1998
1999
2000
2001
2002
Total Tons Recycled

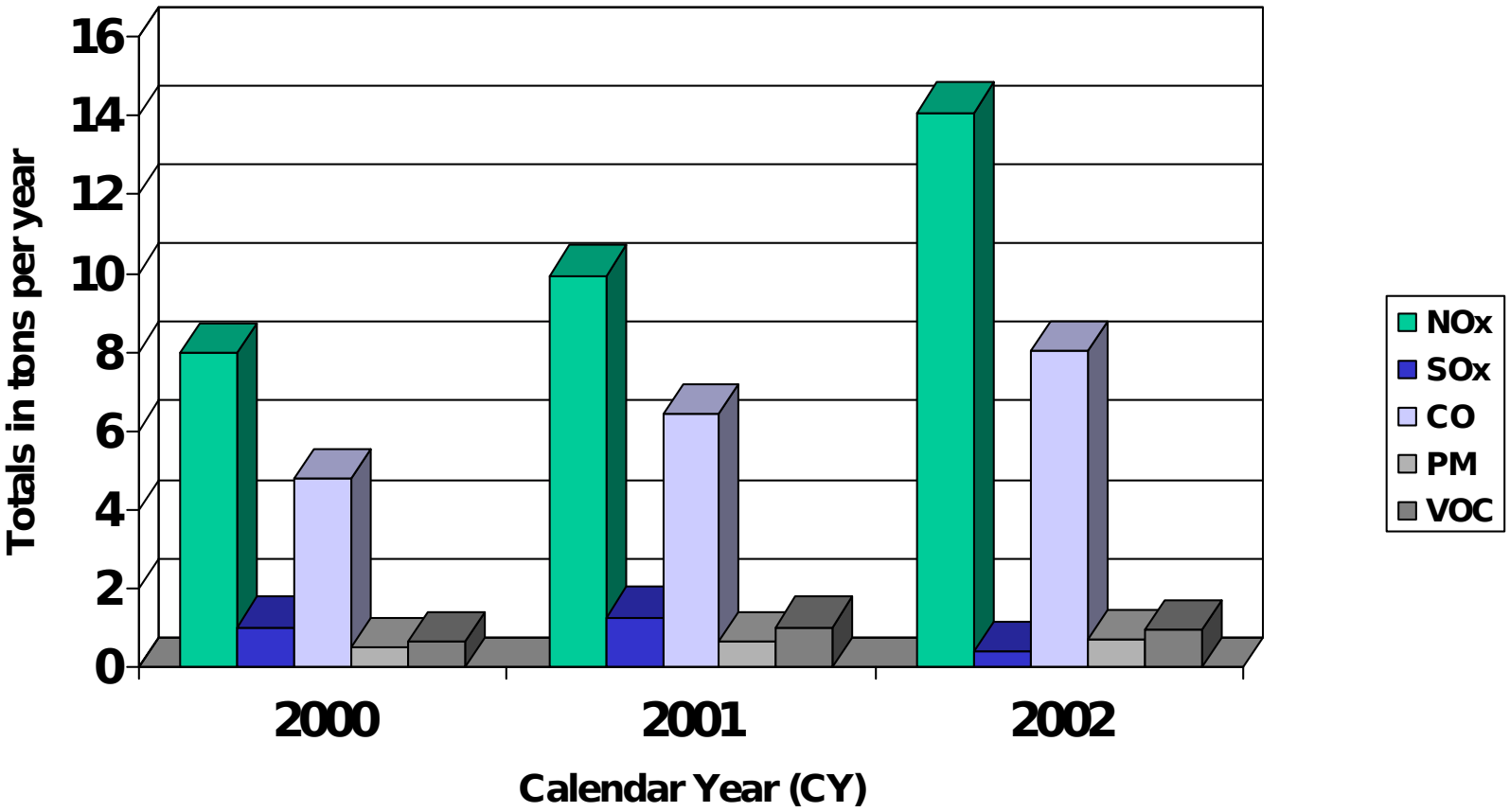

Solid Waste Recycled (tons)
350
300
250
200
150
100
50
0
Tons
1996
1997
1998
1999
2000
2001
2002
Financial Year
Other Non-food
Metals
Paper and Paperboard
Plastic
Glass

Hazardous Waste Management Costs vs. Total Hazardous Wastes



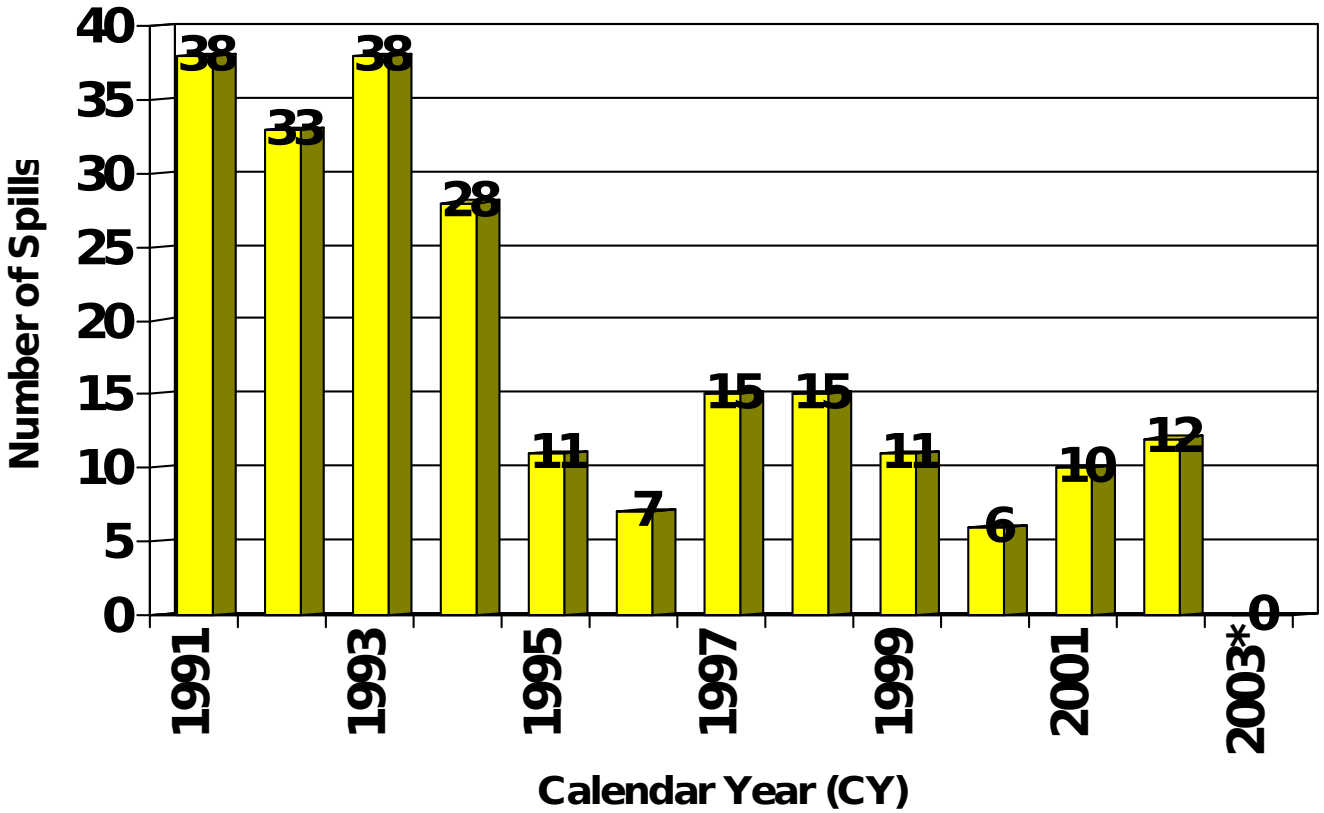
*Installation population numbers were taken from the annual P2ADS Reports.

Total Air Emissions

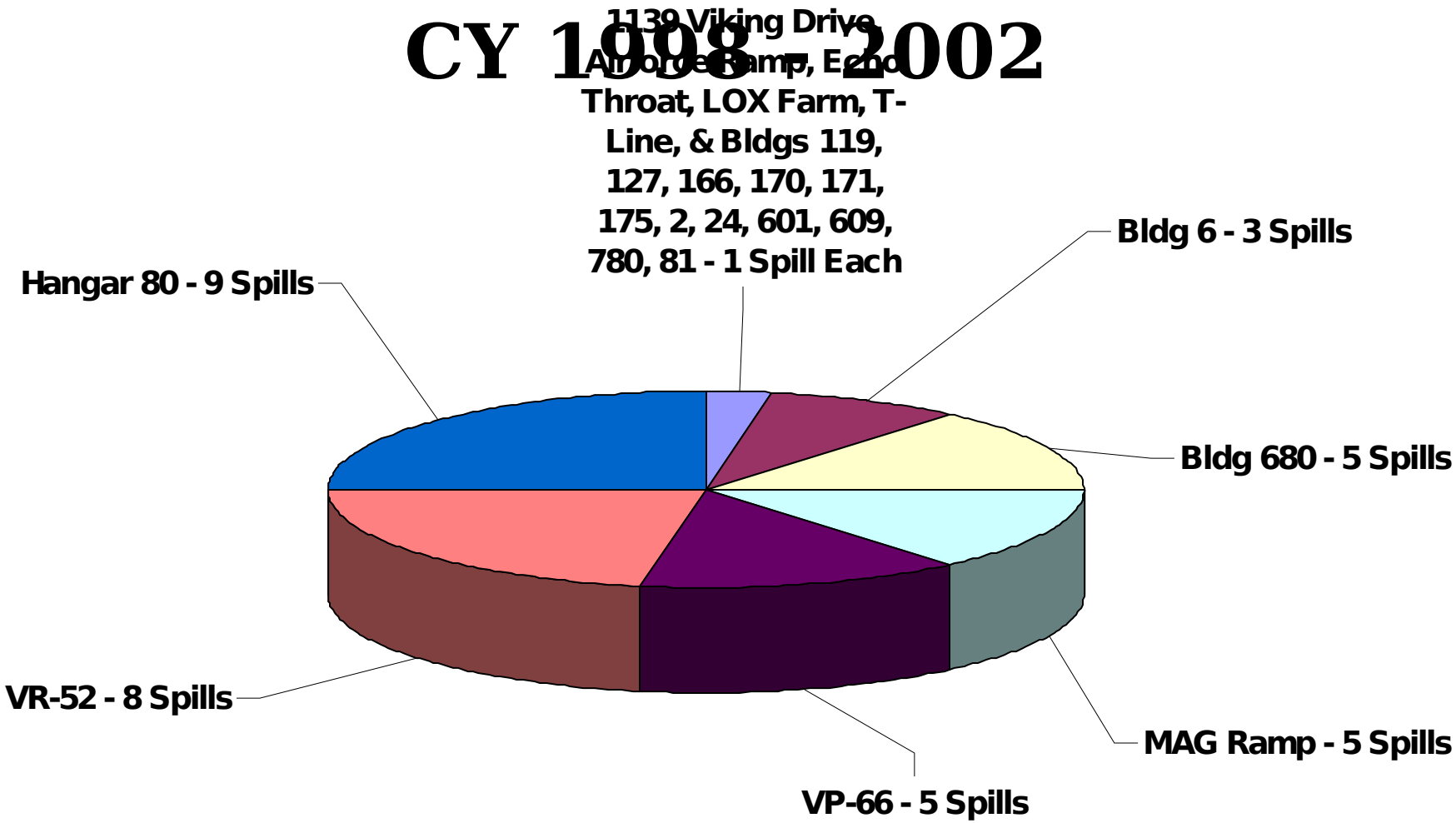


*Air Emission Data were pulled from the annual AIMS Reports.

Total Number of Spills



Breakdown of Spills by Location from CY 1998 – 2002


1139 Viking Drive, Airport Ramp, Echo Throat, LOX Farm, T-Line, & Bldgs 119, 127, 166, 170, 171, 175, 2, 24, 601, 609, 780, 81 - 1 Spill Each
Bldg 6 - 3 Spills
Hangar 80 - 9 Spills
Bldg 680 - 5 Spills
VR-52 - 8 Spills
MAG Ramp - 5 Spills
VP-66 - 5 Spills

Site Visit/Data Analysis

- Media Manager filing methods
- Numerical data was in hardcopy format
- Inconsistent use of technology tools
- 3 years of historical data
- Some data collected by other departments
- Spill record issues: Type and units
- Data correlation

Action Items

- Amend ROICC contracts and develop procedure
- Develop methodology for tracking waste in each area
- Track costs avoided by implementation of environmental programs
- Establish solid waste costs to justify recycling of glass and plastic
- Develop methodology for ensuring that the numbers are automatically entered into EnviroManager
- Affirmative Procurement
- Reclassification of waste stream: Lamps managed as a universal wastes.

Next Steps

- Data Management
- EQA Report
- Refine system
- Automate data collection
- Audit scheduled for last week of May